Appendix B

Borehole Logs

### ENVIRONMENTAL RESTORATION 26-1 BOREHOLE LOG

Depth (ft)	Blow Counts		ample ype	Organics (11.7 eV lamp) (ppm)	Rad. (cpm)	Lithologic USCS Symbol	Geologic Description
	Not Applicable		Rad Blased Grab			SW	0.6 over liner; loose, dark yellowish brown (10 YR 4/2) unstratified, medium to coarse, rounded to subrounded SAND and some small to large, rounded to subrounded GRAVEL liner
- 0 -	Not Applicable		Rad Biased Grab	0.2 ppm 0.0 ppm 0.0 ppm 0.0 ppm 0.0 ppm	1000 2000 900 900 350 >50,000	SW	<ul> <li>0.0 to 1.7; loose to compact (estimate), dark yellowish brown (10 YR 4/2), unstratified medium to coarse, rounded to subrounded SAND, some small to medium rounded to subrounded GRAVEL.</li> <li>1.7 to 6.0; compact (estimate), dark yellowish brown (10 YR 4/2), unstratified medium to coarse, rounded to subrounded SAND, some small to large rounded to subrounded GRAVEL.</li> <li>Measured at 5 mRem</li> </ul>
- 5 -	Not Applicable		Rad Biased Grab	0.0 ppm		SW	TD of hole at 6.0
- 10 -							
- 15 -			33.45411				
20 L ECA: <u>C</u>					0	(5)	Location: <u>26-1</u>
Boreho	Subcont le Diame I by: <u>Arc</u> e Method	ter: den	4 in Baily	CAI Ge	ologist)	rs (Black	Cfoot, Idaho)  Drill Method Hand Auger/ Reviewed by:   Reviewed by:
Signati	ure:	<u>.</u>					Date: 18-19 Aug 92



= Denotes California Split-spoon sampler

= Denotes grab sample

## ENVIRONMENTAL RESTORATION 26-2 BOREHOLE LOG

Depth (ft)	Blow Counts	Sample Type	Organics (11.7 eV lamp) (ppm)	Rad. (cpm)	Lithologic USCS Symbol	Geologic Description			
						,			
						0.6 above liner; loose, dark yellowish brown (10 YR 4/2) unstratified, fine to coarse SAND and small to large rounded to subrounded GRAVEL.			
						liner (20 mil)			
- 0 -		Rad Biased grab	0.0 ppm	1000	SP	0.0 to 1.5 loose to compact (estimate) dark yellowish brown (10 YR 4/1) unstratified, medium SAND and some small to medium rounded to subrounded GRAVEL.			
	Nat Applicable		0.1 ppm 0.0 ppm 0.0 ppm	1000		1.5 to 6.1; loose to compact, dark yellowish brown (10 YR 4/2) unstratified, medium to coarse rounded to subrounded SAND and some small to large rounded to subrounded GRAVEL — from 4.7 to 5.0 trace to little			
	4 Aps		1	500	sw	grayish black (N2)small sized gravels			
	ž		0.0 ppm	30,000		Measured at 9 mRem			
5 -		Rad Blosed	0.0 ppm	50,000 50,000	sw				
<b></b>		grab	0.0 ppm	50,000		TD hole at 6.1			
<del>  </del>	ļ								
- 10 -									
		]							
- 15 -				·					
L 20 J									
= 20 == ECA: <u>C</u> l	PP-26					Location: <u>26</u> -2			
	Subcont	roctor:	Hawley	Brothe	rs (Black	foot, Idaho)			
Boreho	le Diame	ter: <u>4 i</u>	nches		. =	Drill Method Hand Auger			
Logged	by: Arc	ien Baily	(GA1 Ge	ologist)		Reviewed by:			
Sample Method Rad Biased Grab									
Signatu	ıre:			Date: <u>19 Aug 92</u>					
<b>V</b> .	= Denotes California Salit-spagn sampler = Denotes arab sample								





## ENVIRONMENTAL RESTORATION 26-3 BOREHOLE LOG

Depth (ft)	Blow Counts	Sample Type	Organics (11,7 eV iamp) (ppm)	Rad. (cpm)	Lithologic USCS Symbol	Geologic Description
- 0 -	Noi appilcable	Rod Slosed Grab	0.0 ppm	700	S.M.	O.4 over liner; loose, dark yellowish brown (10YR 4/2 unsratified, medium to coarse rounded to subrounded, SAND, some small to large, rounded to subrounded GRAVEL.  Siner (20 mil)  O.0 to 1.1 loose to compact, dark yellowish brown (10YR 4/2) unsratified, medium to coarse rounded to subrounded, SAND, some small to medium, rounded to subrounded GRAVEL.  NOTE: Hole abandonded at 1.1 due to concrete at bottom
_ 5 -	*					of hole.
- 10 -						
- 15 -				. a · · · · · · · · · · · · · · · · · ·		
L <sub>20</sub> J FCA: C	PP-26	1	<u> </u>		1	Location: 26-3 (abandoned)
	Subcon	tractor:	Hawley	Brothe	ırs (Black	foot, Idaho)
_	ile Diame		nches			Drill Method Hand Auger
Logged	i by: Ar	den Baily	(GAI Ge	ologist)		Reviewed by:
Somple	<b>Method</b>	Rad Bi	sed Gra	Ь		
Signati	ure:					Date: 20 Aug 92
V						

Denotes California Split—spoon sampler

Denotes grab sample

# ENVIRONMENTAL RESTORATION 26-3 BOREHOLE LOG

Depth (fl)	Blow Counts	Sample Type	Organics (11.7 eV lamp) (ppm)	Rad. (cpm)	Lithologic USCS Symbol	Geologic Description
						0.6 over liner; loose, dark yellowish brown (10 YR 4/2) unstratified, medium to coorse, rounded to subrounded, SAND and some small to large, rounded to subrounded GRAVEL  liner — (20 mil)
- 0 -	Uner-				SP	0.0 to 0.5; compact, dark yellowish brown (10 YR 4/2),
	<u>.</u>		0.0 ppm	400		unstratified medium SAND
	Not Applicable	Rad Biased Grab	0.0 ppm 0.0 ppm 0.0 ppm	2000 500	sw	0.5 to 4.0; compact, dark yellowish brown (10 YR 4/2) unstratified; medium to course, rounded to subrounded SAND, some small to medium, rounded to subrounded GRAVEL
- 5 -	<del></del>		0.0 ppm	500		NOTE: Hole abandoned at 4.0 due to concrete at bottom of hole
- 10						
	PP-26					Location: 26–3
	Subcont	ractor:	Hawley	Brothe	rs (Black	foot, Idaho)
_	le Diame		nches			Drill Method Hand Auger
.oggad	by: Arc	ien Baily	(GAI Geo	ologist)		Reviewed by:
Sample	Method	Rad Big	sed Gra	b	<u> </u>	
Signatu	ure:					Date: 20 Aug 92
V						



### ENVIRONMENTAL RESTORATION 32E-1 BOREHOLE LOG

Ospin (fi)	Blow Counts	Sample Type	Organics (11.7 eV lamp) (ppm)	Rod. (cpm)	Uthologic USCS Symbol	Geologic Description
			:			
- 0 -	Not Applicable	Rod Biased Grab		200 300 900 900 700	sw	0.0 to 5.0 — loose to compact (field expediant estimate) Dark yellowish brown (10 YR 4/2) unstratified Medium to coarse, rounded to subrounded SAND and small to medium rounded to subrounded GRAVEL
- 5 -				320 250		TD - 5.0
- 10 -		}		<u> </u>		
- 15 -						
20 - ECA: CI	PP-32E					Location: 32E-1
Drilling	Subcont	ractor: ter: <u>4 i</u>		Brothe	rs (Black	Drill Method Hand, Auger
Somple	e Method	den Baily RAD Bi	ased Gro	b		Reviewed by:
Signati		es Califo				

# ENVIRONMENTAL RESTORATION 79-1 BOREHOLE LOG

Surface is composed of: loose to compact, pale yellowish brown (10 YR 6/2) unstrailited, fine to coarse rounded to subrounded GRAVEL  29/15	Depth (ft)	Blow Counts	Sample Type	Organics (11.7 eV lamp) (ppm)	Rad. (cpm)	Lithologic USCS Symbol	Geologic Description
20/15 17/24  CA 55. 20/2.0  10  18/12 20/18  CA 35. 2.0/2.0  10  18/12 20/18  CA 35. 1.5/2.0  CA 55. 1.5/2.0							subrounded, SAND and some small to large rounded to subrounded GRAVEL
20/15   CA 55   0.0 ppm   Back   SW   20/20   0.0 ppm   Back   SW   20/20   0.0 ppm   Back   SW   Subrounded SAND and small to medium, rounded to subrounded SAND and small to	0 -						FILL
20/15 17/24 CA SS 2.0/2.0 0.0 ppm Back - ground SW 2.0/2.0 SW 20/18 1.5/2.0 0.0 ppm Back - ground SW 20/18 1.5/2.0 0.0 ppm Back - SW 20/18	5 -			-			
18/12 20/18		20/15 17/24		0.0 ppm		sw	4/2) unstratified, fine to coarse, rounded to subrounded SAND and small to medium, rounded to
subrounded SAND and small to medium, rounded to subrounded GRAYEL  12/13	10 -	20/18	1.5/2.0	0.0 ppm			4/2) unstratified, fine to coarse, rounded to subrounded SAND and small to medium, rounded to subrounded GRAVEL 12.0 to 14.0; Damp. dense, dark yellowish brown (10 YR)
20/25 32/45 CA SS 1.2/2.0 0.4 ppm Back - SW ground SW 10.2/2.0 0.4 ppm Back - SW ground SAND and small to medium, rounded to subrounded GRAVEL  23/18 11/9 CA SS 1.4/2.0 0.5 ppm Back - SW ground SW 11/9 1.4/2.0 0.5 ppm Back - ground SW 18.0 to 19.4; Moist, compact, dark yellowish brown (10 YR 4/2) unstratified, fine to coarse, rounded to subrounded SAND and small to medium, rounded to subrounded SAND and small to medium, rounded to subrounded SAND and small to medium, rounded to subrounded GRAVEL  20 CA: CPP-79 Location: 79-1  Hawley Brothers (Blackfoot, Idaho)  orehole Diameter: 8 inch outside diameter Drill Method 4 inch. hollow stem auger  pagged by: Arden Baily (GAI Geologist)  Reviewed by: 10 Method 10	16	16/16	2.0/2.0 CA SS		ground Back -		subrounded SAND and small to medium, rounded to subrounded GRAVEL 14.0 to 15.4; Damp. dense, dark yellowish brown (10 YR 4/2) unstratified, fine to coarse, rounded to
20 20 20 20 20 20 20 20 20 20 20 20 20 2		20/25 32/45	7 <b>V</b> I	0.4 ppm		SW	subrounded GRAVEL  16.0 to 17.2; Moist, very dense, dark yellowish brown (10 YR 4/2) unstratified, fine to coarse, rounded to subrounded SAND and small to medium, rounded to
CA: CPP-79  Location: 79-1  rilling Subcontractor: Hawley Brothers (Blackfoot, Idaho)  prehole Diameter: 8 inch outside diameter  Drill Method 4 inch. hollow stem auger  pagged by: Arden Baily (GAI Geologist)  Reviewed by:		23/16 11/9	CA 5S 1.4/2.0	0.5 ppm		sw	YR 4/2) unstratified, fine to coarse, rounded to subrounded SAND and small to medium, rounded to
orehole Diameter: 8 inch outside diameter Drill Method 4 inch. hollow stem auger ogged by: Arden Baily (GAI Geologist) Reviewed by:		PP79					
ogged by: Arden Baily (GAI Geologist)  Reviewed by:	•					` `	<u> </u>
cample Method California split spoon sampler driven with a 140 lb hammer						meter	
	ample	Method	Californ	nia split	spoon	sampler (	driven with a 140 lb hammer
ignature: Date: 2 Sep 92	ignoti	ure:					Date: 2 Sep 92



= Denotes California Split-spoon sampler

= Denotes grab sample

#### ENVIRONMENTAL RESTORATION 79-1 Cont. BOREHOLE LOG

Depth (ff)	Blow Counts	Sample Type	Organics (ppm)	Rod. (cpm)	Lithologis USCS Symbol	Geologic Description
20 -	7/9 10/12	CA 5:	0.5 ppm	Back - ground	sw	20.0 to 21.2; Moist, compact, dark yellowish brown (10 YR 4/2) unstratified, fine to coarse, rounded to subrounded SAND and small to medium, rounded to subrounded GRAVEL trace organics — (one lone three
	7/9 7/9	CA SS 1.6/2.		Back - ground	SW	inch diamter wood fragment with bark)  22.0 to 23.6; Moist to wet, compact, dark yellowish brown (10 YR 4/2) unstratified, fine to coarse, rounded to subrounded SAND and small to medium, rounded to subrounded GRAVEL
25 -	5/5 6/11	CA S:	[] [] BOM	Back – ground	SW	24.0 to 25.4; Wet, compact, dark yellowish brown (10 YR 4/2) unstratified, fine to coarse, rounded to
ŀ						subrounded SAND and small to medium, rounded to subrounded GRAVEL
	9/15 16/21	CA SS 0.5/2.0	0.0 ppm	Back ground	SW	25.0 to 26.5; Wet, dense, dark yellowish brown (10 YR 4/2) unstratified, fine to coarse, rounded to subrounded SAND and small to medium, rounded to
	11/16 21/28	CA SS 1.2/2.	0.0 ppm	Back — ground	SW	subrounded GRAVEL  28.0 to 29.2; Wet, dense, dark yellowish brown (10 YR  4/2) unstratified, fine to coarse, rounded to subrounded SAND and small to medium, rounded to subrounded GRAVEL
30	21/17 16/16	CA 55 1.5/2.0		Back - ground	SW	30.0 to 31.3; Moist, dense, dark yellowish brown (10 YR 4/2) unstratified, fine to coarse, rounded to subrounded SAND and small to medium, rounded to subrounded GRAVEL
	15/14 18/15	CA SS 1.3/2.0	0.2 ppm	Back - ground	SW	32.0 to 33.3; Moist, dense, dark yellowish brown (10 YR 4/2) unstratified, fine to coarse, rounded to subrounded SAND and small to medium, rounded to subrounded GRAVEL
35 -	12/11 11/12	CA SS 1.4/2.0		Back - ground	SW	34.0 to 35.4; Moist, compact, dark yellowish brown (10 YR 4/2) unstratified, fine to coarse, rounded to
						subrounded SAND and small to medium, rounded to subrounded GRAVEL
40 +	20/18 41/32	CA 53 1.3/2.0	A Marie	1.2 Rem <i>βγ</i> 300mRem γ	sw	Late Entry 9/14/92 40.0 to 41.3; Moist, very dense, pale yellowish orange to very pale yellowish orange (10 YR 8/6 to 10 YR 8/2) staining in pale yellowish brown (10 YR 6/2)
						unstratified, fine to coarse, rounded to subrounded SAND and some small to medium, rounded to subrounded GRAVEL description — late entry — 21 Sep 92  TD of borhole 41.3
:A: <u>CF</u>		1	1		I	Location: 79-1

ECA: <u>CPP-79</u>	Location: 79-1
Drilling Subcontractor: <u>Hawley Brothers (Blackfoot, Idaho)</u>	
Borehole Diameter: 8 inch outside diameter	Drill Method 4 inch hollow stem auger
Logged by: Arden Baily (GAI Geologist	Reviewed by:
Somple Method California split spoon sampler driven with	a 140 lb hammer
Signature:	Date: 4 Sep 92



: Denotes California Split—spoon sampler

= Denotes grab sample